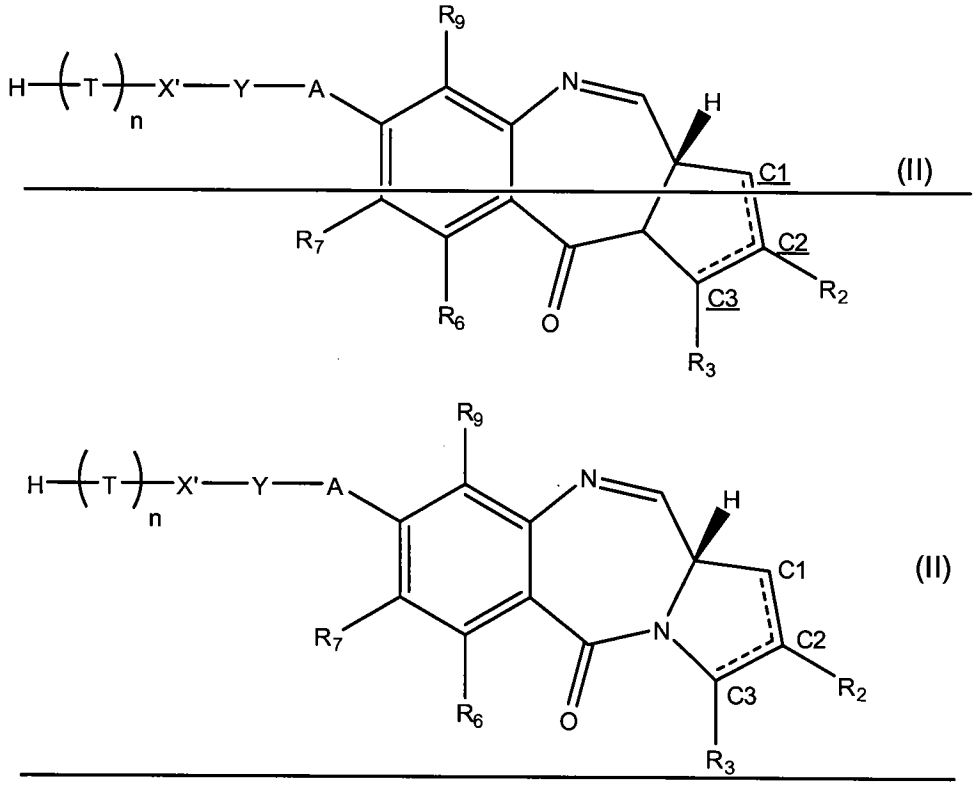
Listing of Claims

1-38. Canceled

39. (Currently amended) A collection of compounds all of which are represented by formula II:



wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1; and

n is a positive integer from 1 to 16.

40. (Currently amended) A collection of compounds according to claim 39 wherein R and HY are independently selected from lower alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms, or an aryl group[[,]] of up to 12 carbon atoms, optionally substituted by one or more halo, hydroxy, amino, or nitro groups.

41. (Previously presented) A collection of compounds according to claim 39, wherein R and HY are independently selected from lower alkyl groups having 1 to 10 carbon atoms optionally substituted by one or more halo, hydroxy, amino, or nitro groups.

42. (Previously presented) A collection of compounds according to claim 39, wherein R or HY are independently selected from unsubstituted straight or branched chain alkyl groups, having 1 to 10 carbon atoms.

43. (Previously presented) A collection of compounds according to claim 39 wherein R_7 is an electron donating group.

44. (Previously presented) A collection of compounds according to claim 39 wherein R_6 and R_9 are H.

45. (Previously presented) A collection of compounds according to claim 39, wherein R_2 and R_3 of are H.

46. (Previously presented) A collection of compounds according to claim 45, wherein R_7 is an alkoxy group.

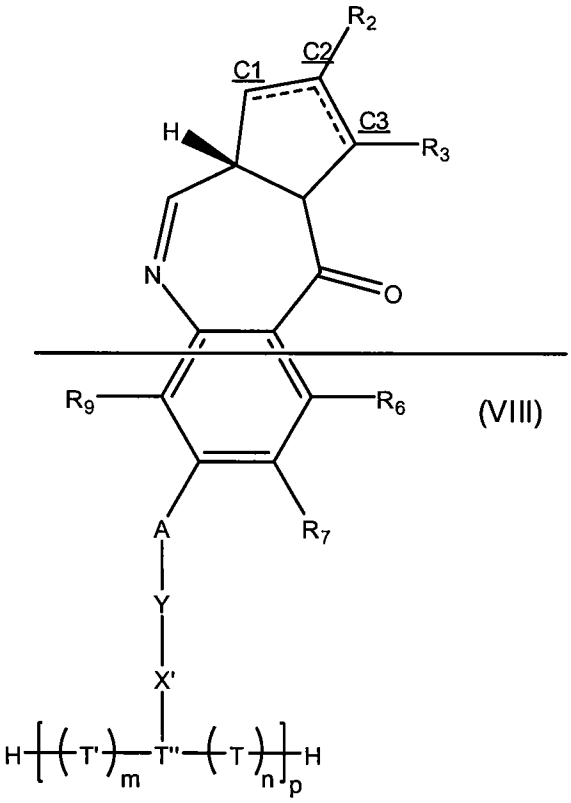
47. (Previously presented) A collection of compounds according to claim 39 wherein there is no double bond between C2 and C3.

48. (Previously presented) A collection of compounds according to claim 39, wherein -Y-A- is an alkoxy chain.

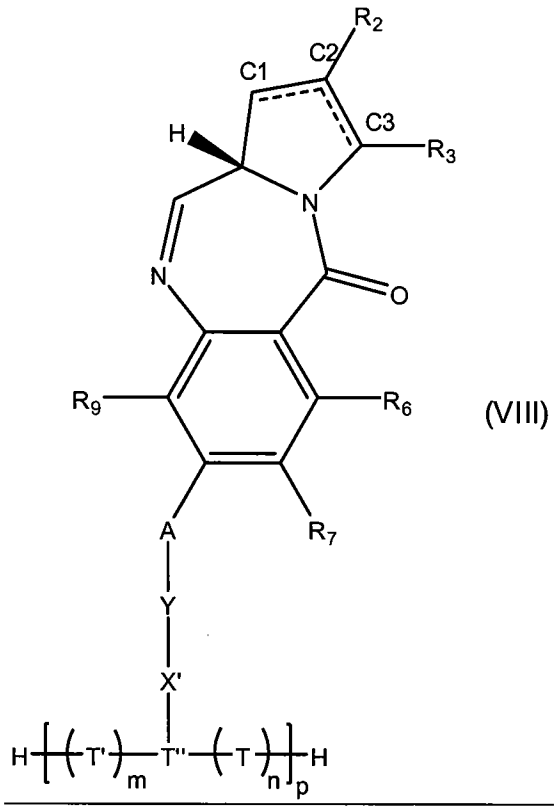
49. (Previously presented) A collection of compounds according to claim 39, wherein X' is either CO or NH.

50. Canceled.

51. (Currently amended) A collection of compounds all of which are represented by formula VIII:



(VIII)



(VIII)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

n is a positive integer from 1 to 16;

m is a positive integer from 1 to 16;

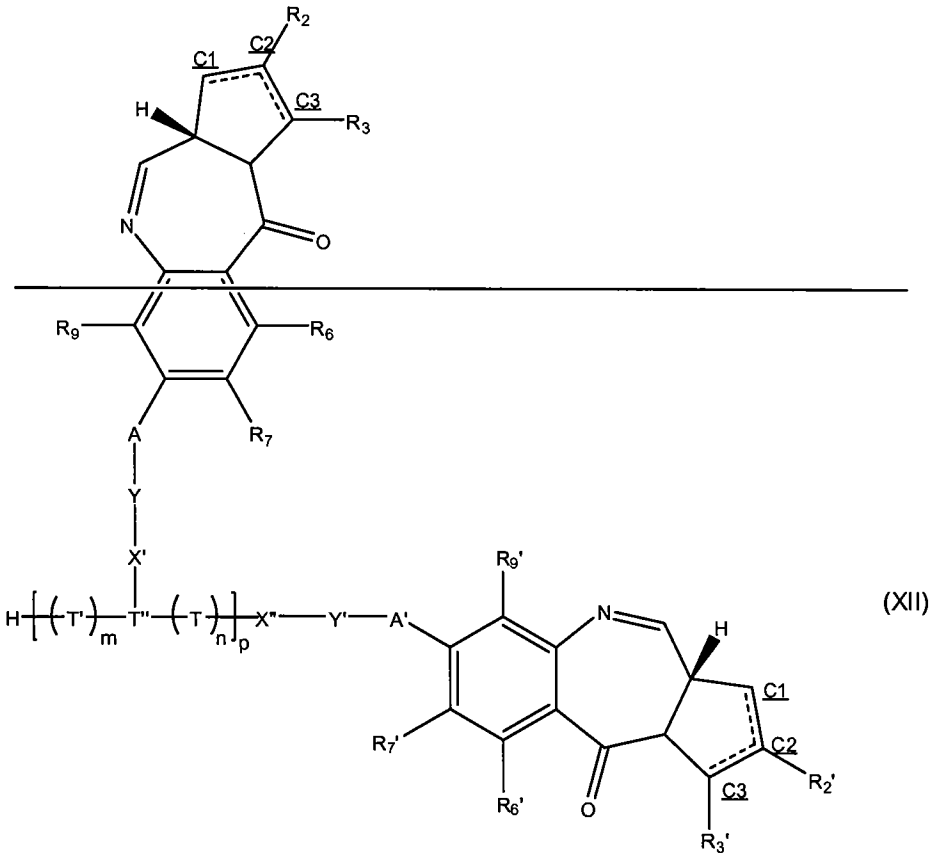
T' is an amino acid residue combinatorial unit, where each T' may be different if m is

greater than 1;

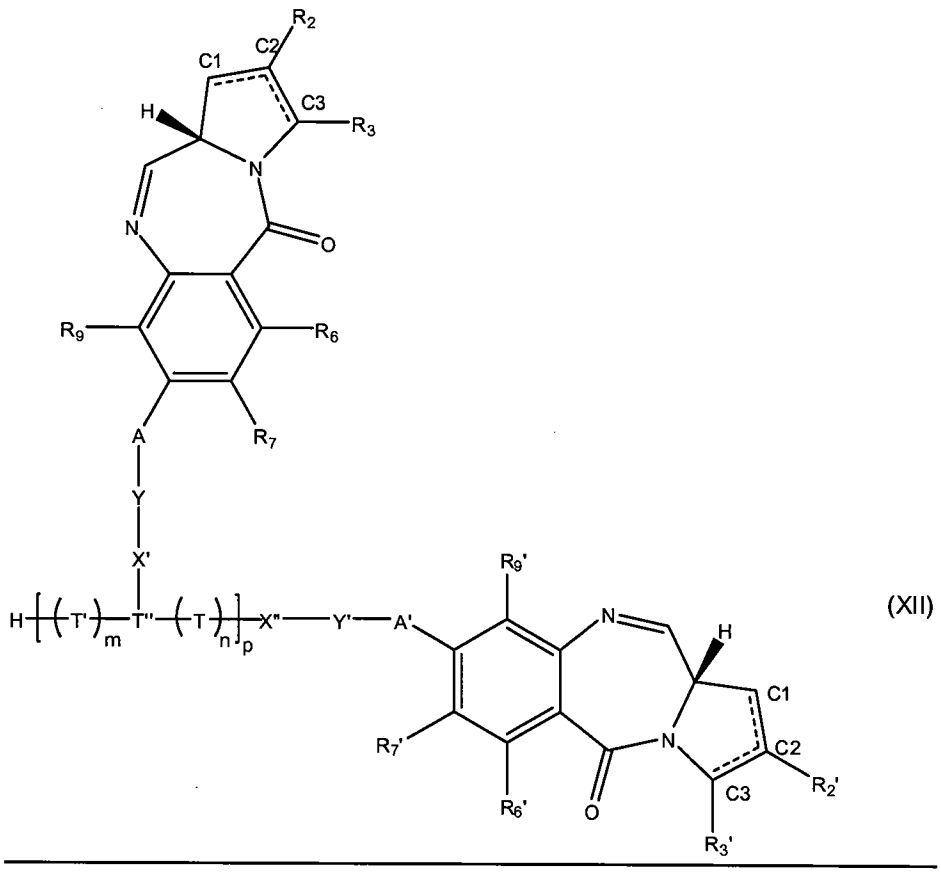
T" is an amino acid residue combinatorial unit which provides a site for the attachment of X'; and

p is ~~a positive integer from~~ 1 ~~to 16, where if p is greater than 1, for each repeating unit the meaning of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T" and values of n and m are independently selected~~.

52. (Currently amended) A collection of compounds all of which are represented by formula XII:



(XII)



(XII)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

n is a positive integer from 1 to 16;

m is a positive integer from 1 to 16;

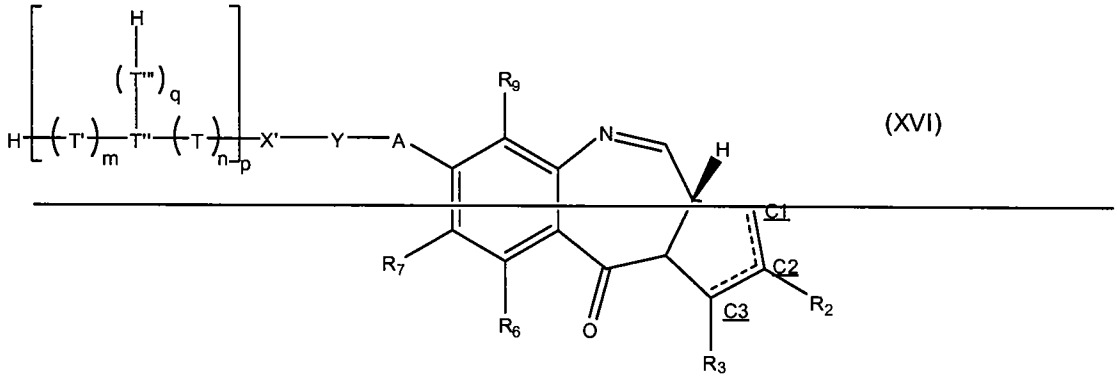
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T" is an amino acid residue combinatorial unit which provides a site for the attachment of X'; and

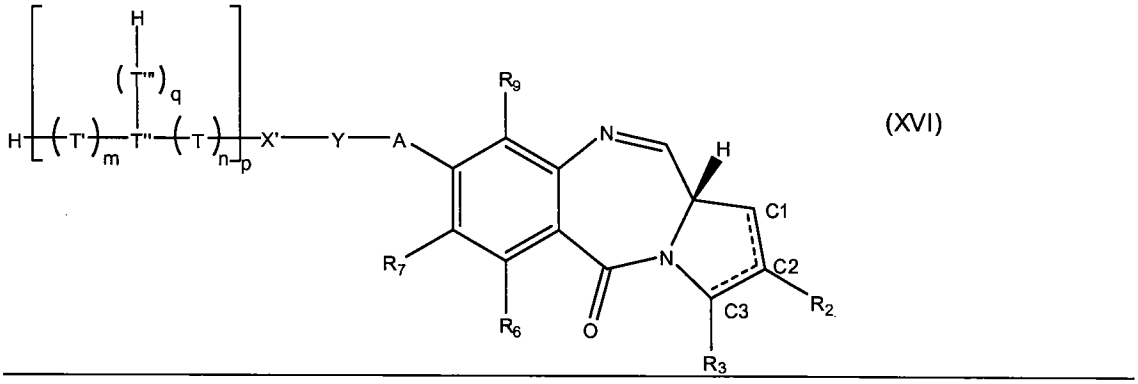
p is ~~a positive integer from~~ 1 ~~to 16, where if p is greater than 1, for each repeating unit the meaning of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T" and values of n and m are independently selected~~; and

X", Y', A', R'_7, R'_2, R'_3, R'_6, R'_9 are selected from the same possibilities as X', Y, A, R_7, R_2, R_3, R_6, and R_9 respectively.

53. (Currently amended) A collection of compounds all of which are represented by formula XVI:



(XVI)



(XVI)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

n is a positive integer from 1 to 16;

m is a positive integer from 1 to 16;

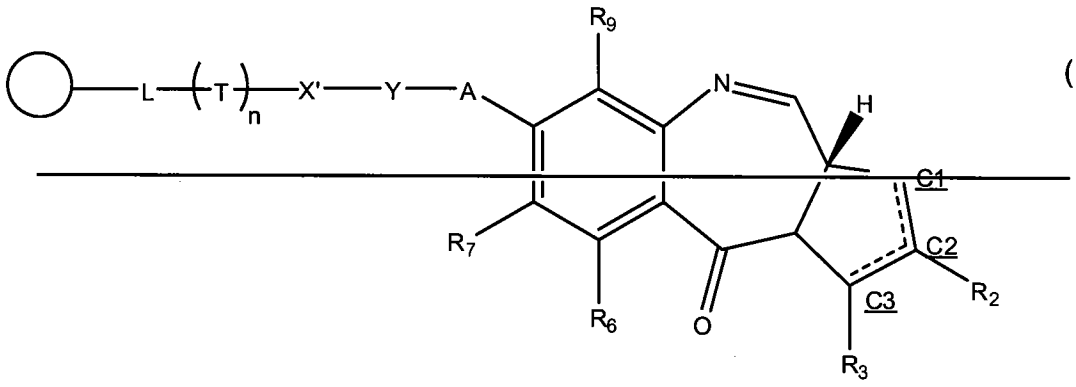
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T" is an amino acid residue combinatorial unit which provides a site for the attachment of X'; and

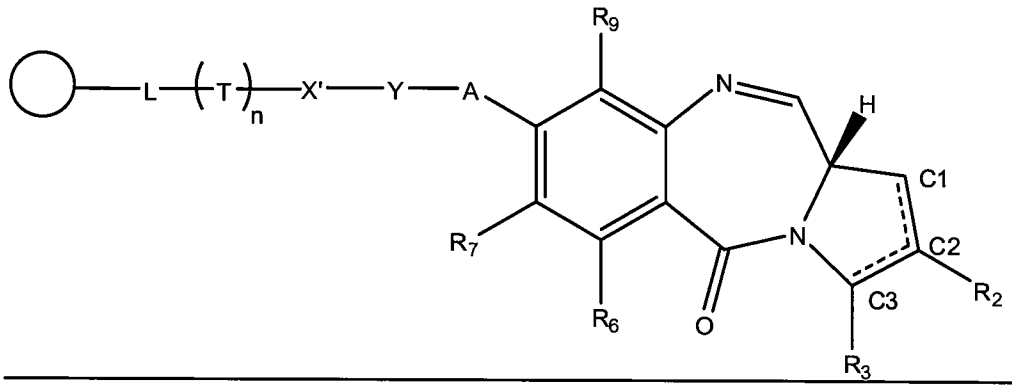
p is ~~a positive integer from~~ 1 ~~to 16, where if p is greater than 1, for each repeating unit the meaning of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T" and values of n and m are independently selected~~; and

T"' and q are selected from the same possibilities as T and n respectively, and where if p is greater than 1, the meanings of T, T', T", T"' and values of n, m and q may be independently selected.

54. (Currently amended) A collection of compounds all of which are represented by formula III:



(III)



(III)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

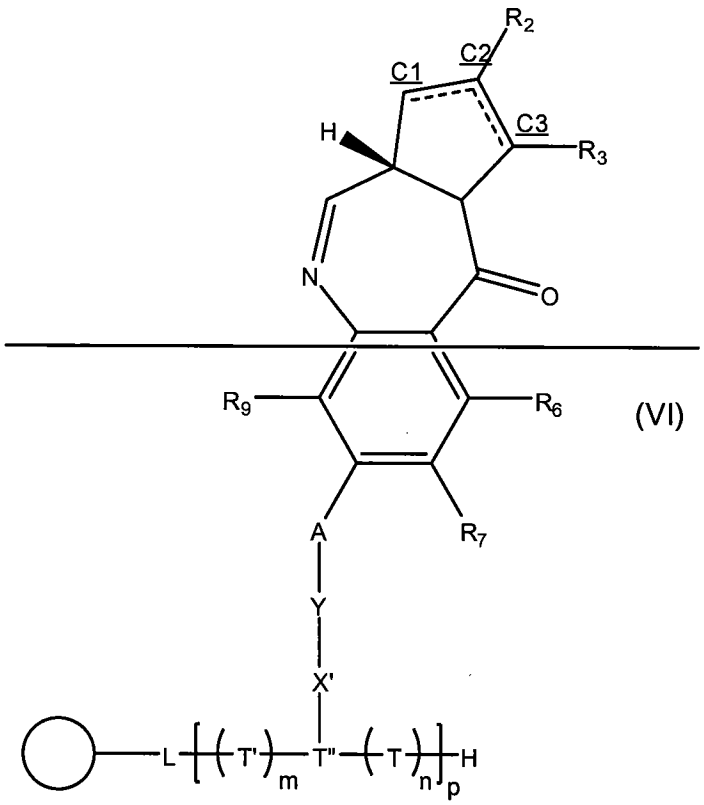
T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

n is a positive integer from 1 to 16;

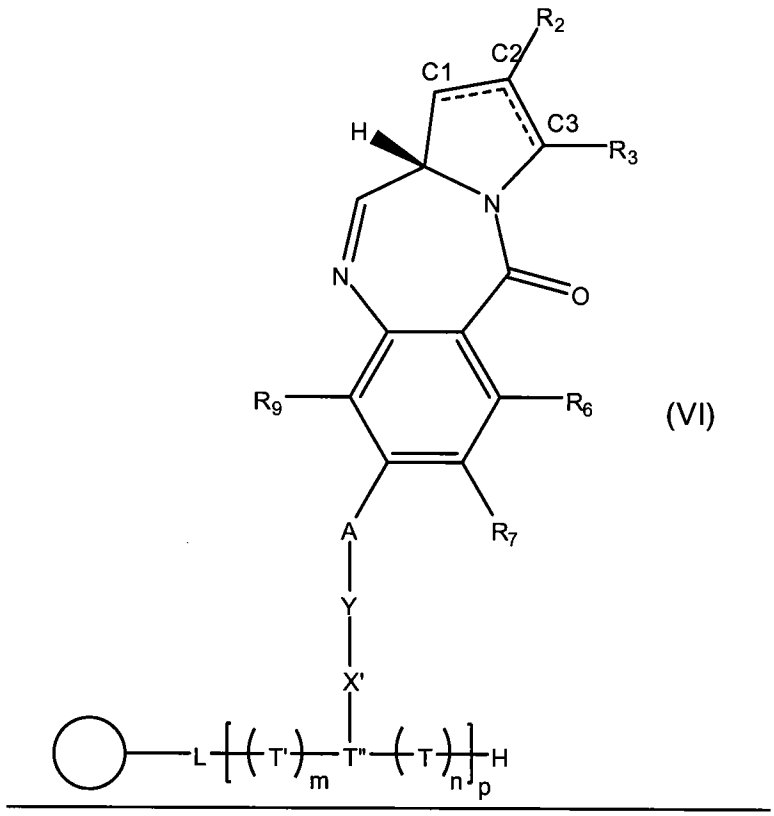
L is a linking group, or a single bond; and

⊙ is a solid support.

55. (Currently amended) A collection of compounds all of which are represented by formula VI:



(VI)



(VI)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

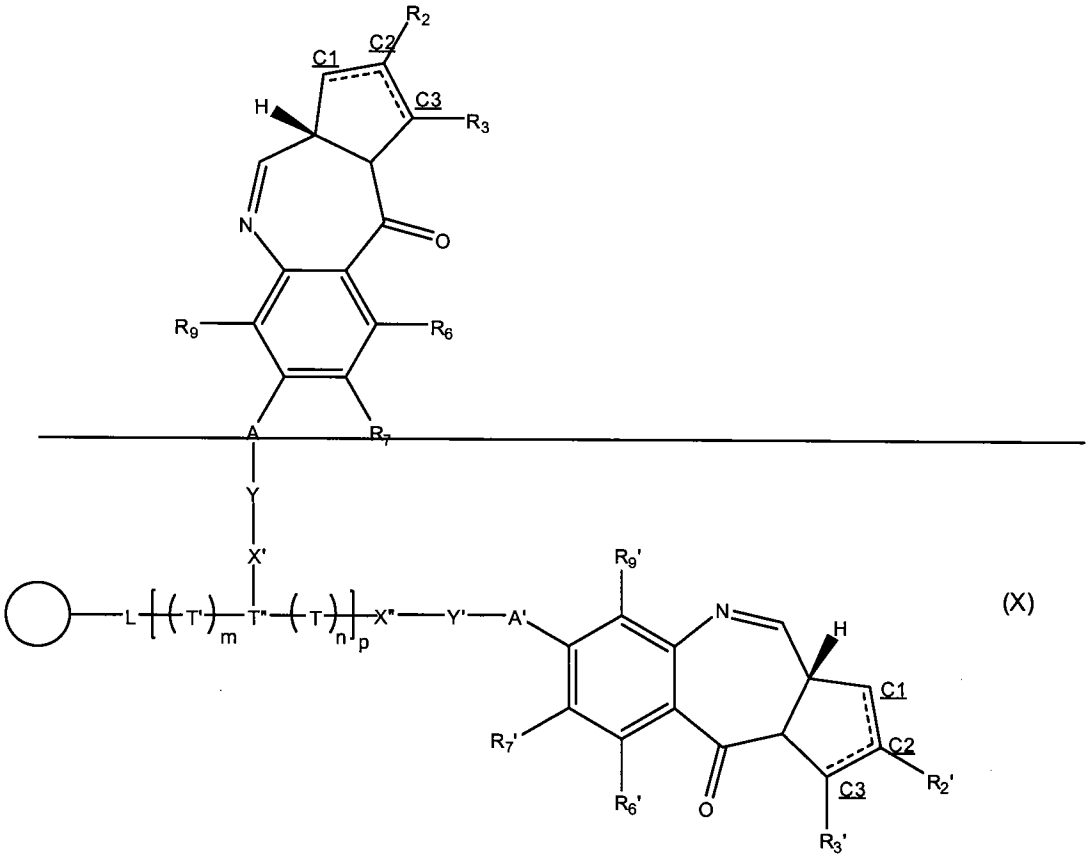
n and m are positive integers from 1 to 16, or one of them may be zero;

T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

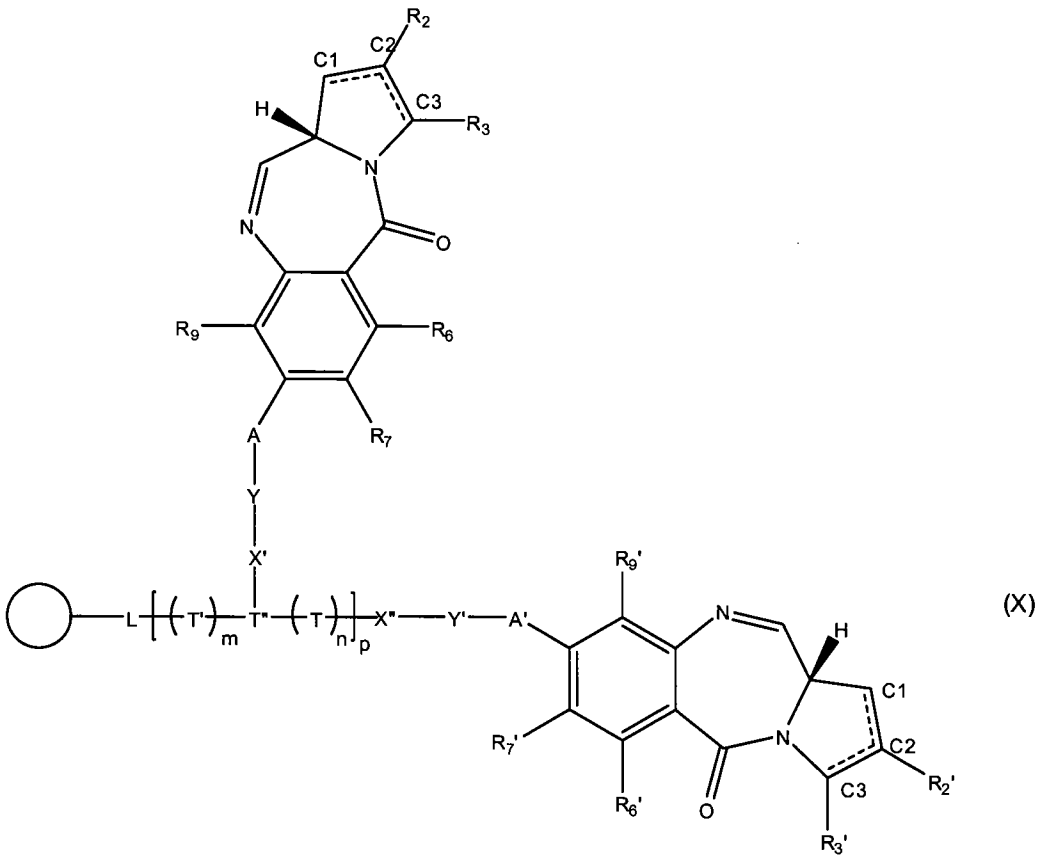
T" is an amino acid residue combinatorial unit which provides a site for the attachment of X'; and

p is ~~a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T" and the values of n and m are independently selected~~.

56. (Currently amended) A collection of compounds all of which are represented by formula X:



(X)



(X)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

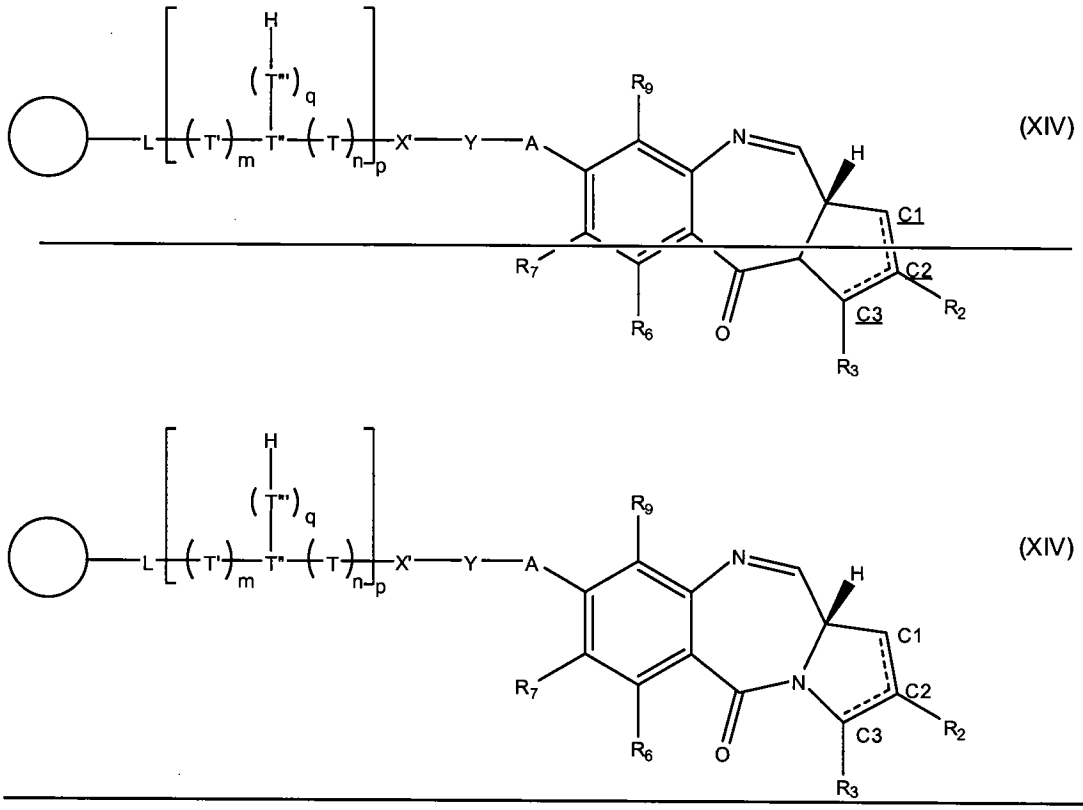
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T" is an amino acid combinatorial unit which provides a site for the attachment of X';

p is ~~a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T" and the values of n and m are independently selected~~; and

X", Y', A', R'_2, R'_3, R'_6, R'_7 and R'_9 are selected from the same possibilities as X', Y, A, R_2, R_3, R_6, R_7 and R_9.

57. (Currently amended) A collection of compounds all of which are represented by formula XIV:



(XIV)

(XIV)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

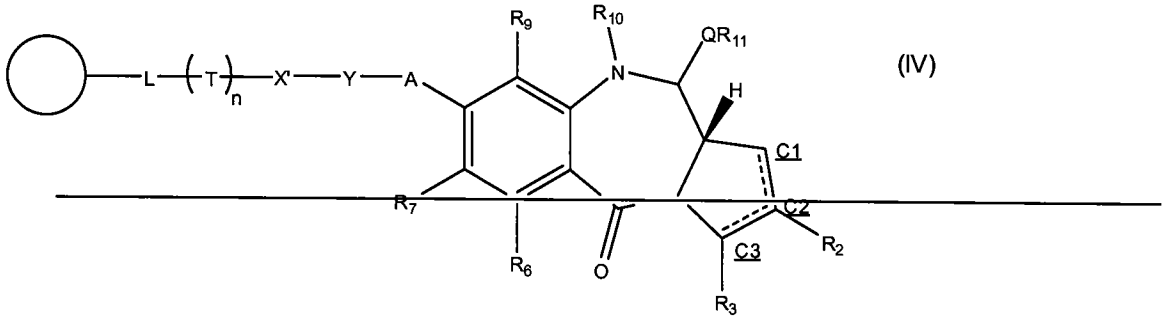
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T" is an amino acid residue combinatorial unit which provides a site for the attachment of X';

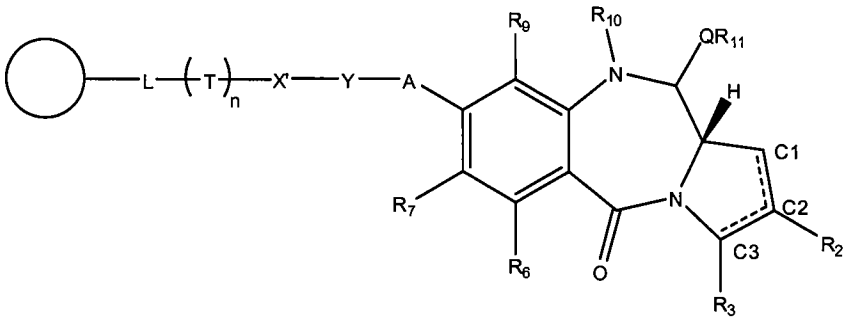
p is ~~a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T" and the values of n and m are independently selected~~; and

T"' and q are selected from the same possibilities as T and n respectively, and where if p is greater than 1, for each repeating unit the meaning of T, T', T", T"' and the values of n, m and q may be independently selected.

58. (Currently amended) A collection of compounds all of which are represented by formula IV:



(IV)



(IV)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n is a positive integer from 1 to 16;

R_{11} is either H or R;

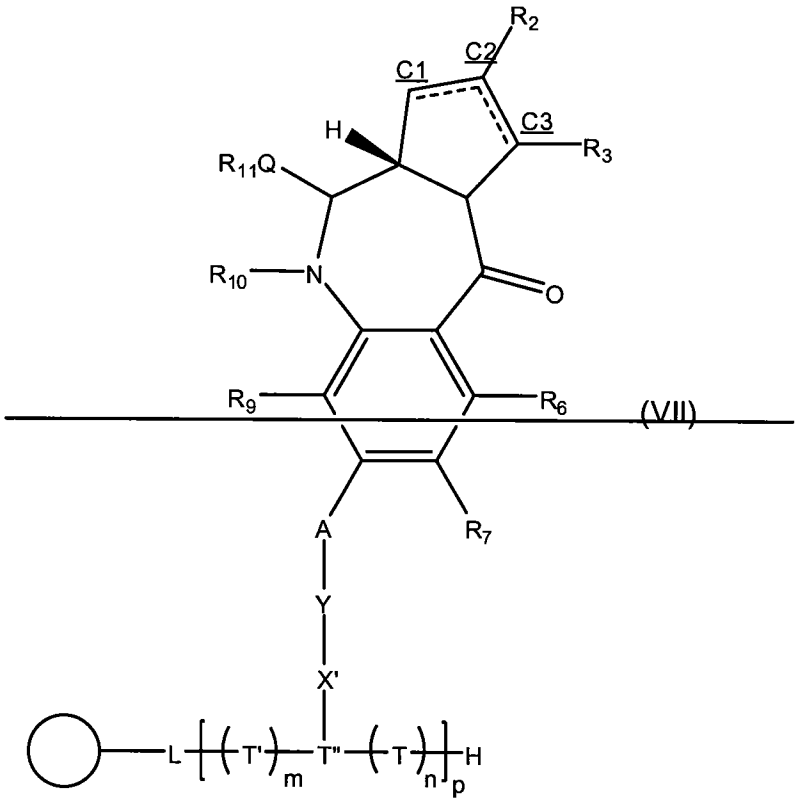
Q is S, O or NH; and

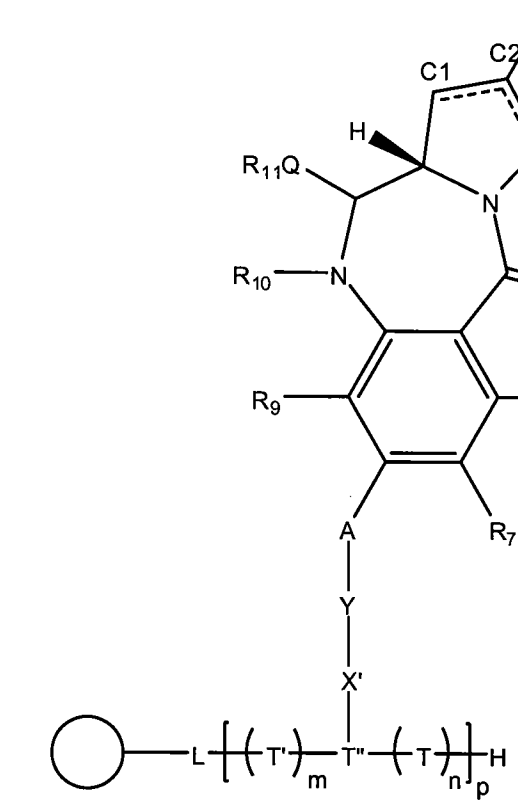
R_{10} is a nitrogen protecting group.

59. (Previously presented) A collection of compounds according to claim 58, wherein R_{10} has a carbamate functionality where it binds to the nitrogen atom at the 10 position of a PBD ring structure.

60. (Previously presented) A collection of compounds according to claim 58, wherein Q is O, and/or R_{11} is H.

61. (Currently amended) A collection of compounds all of which are represented by formula VII:





(VII)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T" is an amino acid residue combinatorial unit which provides a site for the attachment of X';

p is ~~a positive integer from~~ 1 ~~to 16~~;

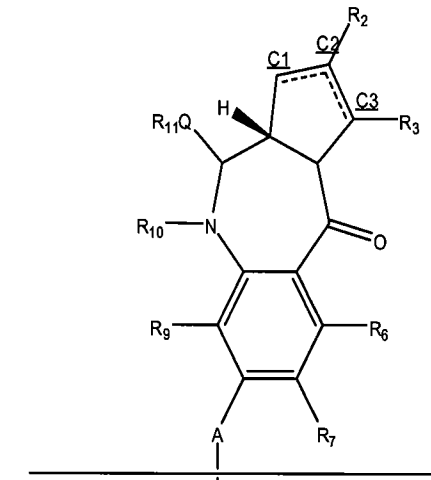
R_{11} is either H or R;

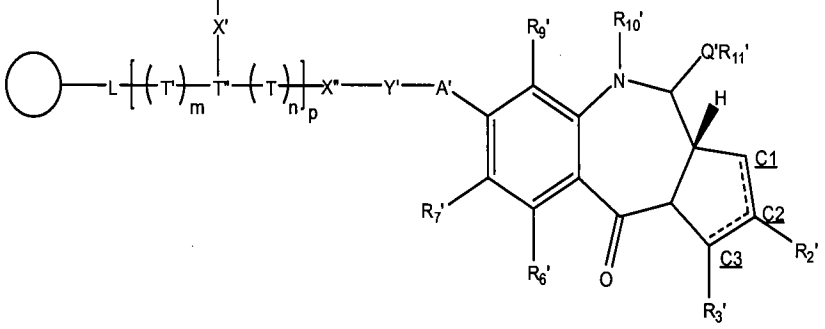
Q is S, O or NH;

R_{10} is a nitrogen protecting group; and

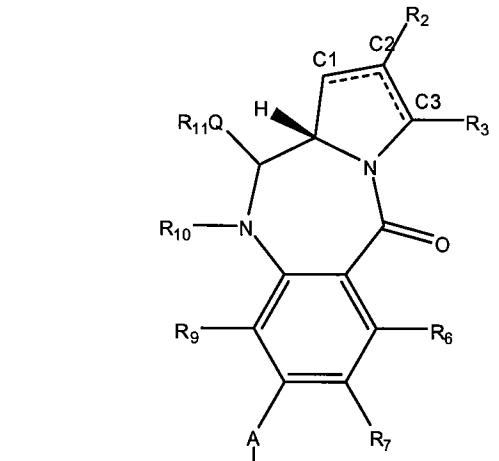
~~where if p is greater than 1, for each repeating unit the meanings of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T", Q, R_{10}, R_{11} and the values of n and m are independently selected~~.

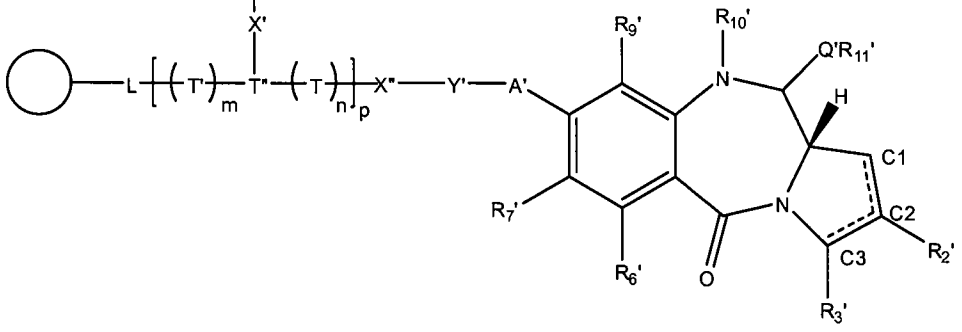
62. (Currently amended) A collection of compounds all of which are represented by formula XI:





(XI)





(XI)

wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T" is an amino acid residue combinatorial unit which provides a site for the attachment of X';

p is ~~a positive integer from~~ 1 ~~to 16~~;

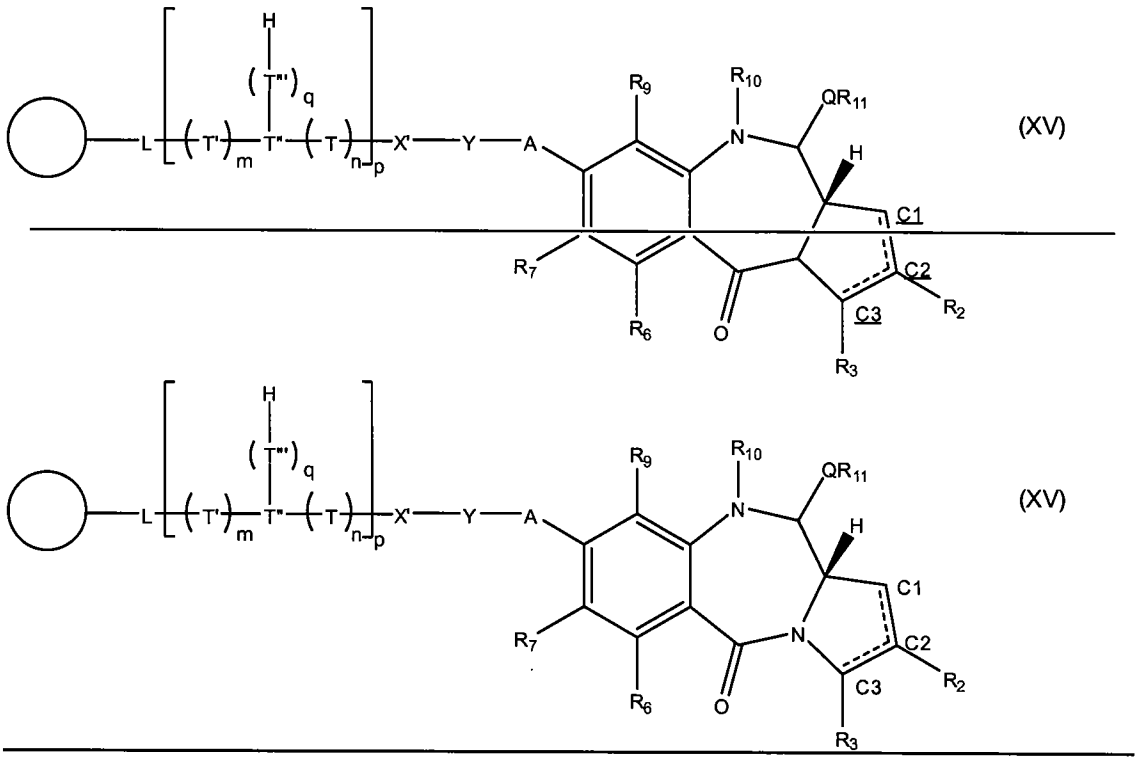
R_{11} is either H or R;

Q is S, O or NH;

R_{10} is a nitrogen protecting group; and

Q', R'_{10}, R'_{11}, have the same definitions as Q, R_{10}, R_{11}, respectively~~, and where if p is greater than 1, for each repeating unit the meanings of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T",Q, R_{10}, R_{11} and the values of n and m are independently selected~~.

63. (Currently amended) A collection of compounds all of which are represented by ~~the~~ formula XV:



A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, $=CH_2$, CH_2-CO_2R, CH_2-CO_2H, CH_2-SO_2R, O-SO_2R, CO_2R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6, R_7, and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me_3Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T" is an amino acid residue combinatorial unit which provides a site for the attachment of X';

p is ~~a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R_2, R_3, R_6, R_7, R_9, T, T', T" and the values of n and m are independently selected~~;

T"' and q are selected from the same possibilities as T and n respectively, and where if p is greater than 1, for each repeating unit the meaning of T, T', T", T"' and the values of n, m and q may be independently selected;

R_{11} is either H or R;

Q is S, O or NH;

R_{10} is a nitrogen protecting group;

64. Canceled.